Greenhouse Gas Emission Reduction Goals in the Electricity Sector

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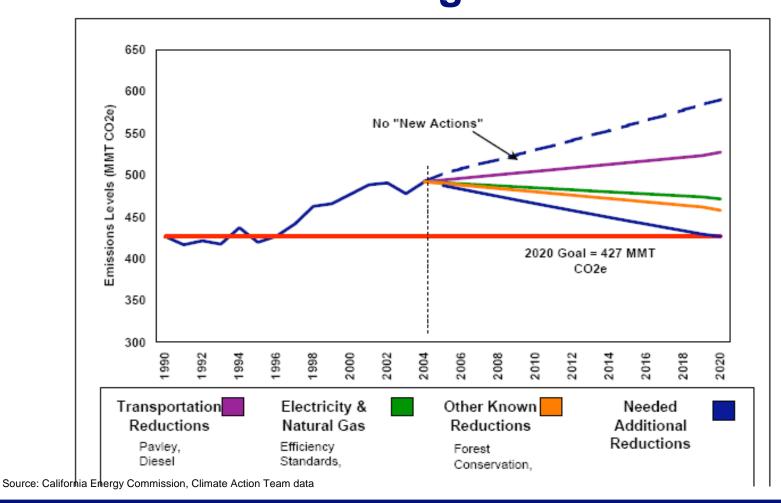


- 2007 Integrated Energy Policy Report adopted December 2007
 - Places GHG reductions prominently in the Energy Commission's Energy Agenda
 - Identifies specific strategies to meet state's energy needs and reduce GHG emissions
 - Concludes that California electricity sector can meet its share of AB 32's targets

- Increase energy efficiency through standards and utility incentives
- 33 percent of power from renewable resources by 2020
- New and improved distribution infrastructure is needed for reliability and also to support technologies such as distributed renewables and demand response

- Energy efficiency and renewable energy are essential for meeting AB 32 goals:
 - It is feasible to achieve 100% cost effective energy efficiency through a combination of building and appliance standards, traditional utility programs, and new strategies and technologies delivered through local governments, community organizations, and the private sector
 - -The 33% renewables by 2020 target is achievable with focused and coordinated support. Changes are needed to:
 - Streamline planning and permitting processes
 - •Expand and upgrade the transmission grid and distribution system
 - •Redesign the market price referent system move to expanded use of feed-in tariffs (fixed price)

California's CO₂ Emission Reduction Strategies



- Joint proceeding with CPUC to develop GHG reduction guidelines for the electricity sector
 - In 2007, CARB adopted mandatory reporting guidelines and 1990 emissions baseline based on recommendations from the CEC & CPUC
 - In 2008, CEC & CPUC recommending to CARB electricity and natural gas program design
- Joint proceeding with CPUC on interim GHG policy decision recommendations to CARB
 - Quantify emissions reductions at what cost and impact on electricity provider (2nd phase)
 - Decisions in March and August
 - March decision recommends mix of program measures and markets, point of regulation and allocation principles. Approach will achieve real GHG reductions at least cost to California consumers
 - August decision will address allocation of costs and benefits, ratepayer costs, and cost effectiveness of measures
 - CARB adoption of Scoping Plan November 2008

- Working on Western Climate Initiative working groups to design regional cap-and-trade program by August 2008
- Staffing and participating in 11 CalEPA Climate Action Team subgroups
 - Chair for Land Use and Local Government Subgroup

Energy Strategies for Reducing GHG Emissions

Standards:

- Building Energy Efficiency Standards
 - 2005 standards went into effect in late 2005
 - Adoption of 2008 standards expected in April 2008
 - AB 1560 clarifies authority for water energy savings in building standards
- Appliance Energy Efficiency Standards
 - 2005 standards in effect in 2006-2008
 - New standards in progress:
 - New lighting standards in response to AB 1109
 - Will cover consumer electronics (televisions) and battery chargers
 - Federal preemption limits state authority
 - AB 662 directs the Energy Commission to include water efficiency and conservation standards in future appliance standards

- Municipal Utility Programs (Portfolio of energy efficiency, renewables, combined heat and power and carbon reduction)
 - Statewide energy efficiency goals have been adopted (AB 2021)
 - Established GHG emission performance standard for baseload generation (SB 1368) for municipal utilities and load serving entities

- Developing Climate Research, Development, Demonstration and Deployment Roadmap
 - Draft interagency report to be released summer of 2008
- Bioenergy Action Plan Implementation
 - Biomass for electricity generation the State shall meet a 20% target for use and production of biopower within established State goals for renewable generation for 2010 and 2020
- Participating in CARB Scoping Plan Process and Development

Questions

